

ABSTRACT

A telescopic shaft for vehicle steering that is assembled into a steering shaft for a vehicle and has a female shaft and a male shaft that are fitted relatively unrotatably but slidably, the telescopic shaft for vehicle steering includes torque transmitting portions that are respectively disposed on an outer surface of the male shaft and on an inner surface of the female shaft and come in contact with each other for transmitting torque upon rotation, and a preload portion composed of a rolling member that is disposed between the outer surface of the male shaft and the inner surface of the female shaft at a different position from a position where the torque transmitting portions are located and rolls when the male shaft and the female shaft relatively move in the axial direction and an elastic member that is disposed adjacent to the rolling member in the diametral direction and gives pressure upon the male shaft and the female shaft through the rolling member, wherein when a gap in the torque transmitting portions is converted into a rotation angle A and a possible flexural amount of the elastic member in the preload portion is converted into a rotation angle B, the rotation angle A should be less than the rotation angle B upon transmitting no torque.